TEJUS
CONSULTANTS

Test Report on Cement

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Sample ID	Cement
Date of Sample Tested	01-11-2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	278	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5.00	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

Note:
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2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N Lokanath Reddy

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	01-11-2019
Period of Soaking	24 hours	**Date of Testing**	01-11-2019

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		656	676	662	
B	Weight of oven - dry sample gm.		647	666	654	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1688	1701	1690	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.663	2.664	2.648	2.658
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.391	1.502	1.223	1.372

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Asst. E.E.

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	Tejus Consultants, Bangalore				
Contractor	Sri. N Lokanath Reddy				
SIEVE ANALYSIS					
Total Weight:	3000 gms				
Type of Material	**Fine aggregate (River Sand/ M sand)**		**Proposed Use**	concrete	
Sample Location	At Site/Plant		**Date of Sampling**	01-11-2019	
			Date of Testing	01-11-2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	231	231	7.70	92.30	**90 - 100**
2.36 mm	305	536	17.87	82.13	**75 - 100**
1.18 mm	413	949	31.63	68.37	**55 - 90**
0.600 mm	484	1433	47.77	52.23	**35 -59**
0.300 mm	710	2143	71.43	28.57	**8-30**
0.150 mm	625	2768	92.27	7.73	**0 - 10**
Pan	232	3000			**-**

Remarks : ✓ Satisfactory / Not Satisfactory

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Assistant Executive Engineer,
Kodigehalli/Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. N Lokanath Reddy				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	20 mm down size		**Proposed Use**	Concrete	
Sample Location	Plant/At site		**Date of Sampling**	01-11-2019	
			Date of Testing	01-11-2019	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	100
20.00 mm	286	286	2.86	97.14	95 - 100
10.00 mm	4842	5128	51.28	48.72	25 - 55
4.75 mm	4226	9354	93.54	6.46	0 - 10
Pan	646	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri. N Lokanath Reddy				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	Concrete	
Sample Location	At Site/Plant		**Date of Sampling**	01-11-2019	
			Date of Testing	01-11-2019	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	**100**
12.5	554	554	5.54	94.46	**90-100**
10.0	4630	5184	51.84	48.16	**40-85**
4.75	4525	9709	97.09	2.91	**0-10**
Pan	291	10000			
Remarks :	✓ Satisfactory / Not Satisfactory				

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	01-11-2019	7-11-2019	7 days	8.300	22500	472	20.98	20.98
2	01-11-2019	7-11-2019	7 days	8.310	22500	470	20.89	
3	01-11-2019	7-11-2019	7 days	8.300	22500	474	21.07	

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Authorised Signatory

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES	
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. N Lokanath Reddy
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	01-11-2019	28-11-2019	28 days	8.135	22500	677	30.09	30.27
2	01-11-2019	28-11-2019	28 days	8.140	22500	681	30.27	
3	01-11-2019	28-11-2019	28 days	8.142	22500	685	30.44	

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Authorised Signatory

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka [illegible], B.B.M.P.,
Bangalore.

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ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

NABL ACCREDITED AS PER ISO/IEC 17025:2017

Job No.: CECTC/LNR/QC/ 2019-20

Date: 02.11.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Bruhath Bangalore Mahanagara Palike**
Agency : **Sri. N Lokanath Reddy,** Contractor, Bangalore.
Name of Work : Construction of RCC Retaining Wall near Water Tank (Behind Govt.School) in Sanjeevinninagara in Ward No.07.Byatarayanapura.
Location : For Drain
Sample Identification : 10mm, 12mm, 20mm & 25mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test: : 02.11.2019

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	8	0.395	520	574	19
2	10	0.617	536	589	20

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For Civil Experts

Authorised Signature

Assistant Executive Engineer
Kodigehalli [illegible] Division,
Yelahanka [illegible] B.B.M.P.,
Bangalore.

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.

TEJUS
CONSULTANTS

TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. N LOKANATH REDDY				
Total Weight in gr	3000				
SIEVE ANALYSIS					
Type of Material	40 mm down size			**Proposed Use**	For Road (PCC)
Sample Location	At Site			**Date of Sampling**	08-11-19
				Date of Testing	08-11-19
IS Sieve Size	**Weight Retained in gm**	**Cum. Weight Retained in gm**	**Cumulative Weight Retained in %**	**Cumulative Weight Passing in %**	**Specific Limits as per IS 383-1970 (RA-2007)**
					% of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	115	115	3.83	96.17	95-100
20.00mm	1550	1665	55.50	44.50	30-70
10.00mm	640	2305	76.83	23.17	10-35
4.75mm	630	2935	97.83	2.17	0-5
Pan	65	3000	100.00	0.00	
Remarks :	Satisfactory / Not Satisfactory				

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Consultant's Representative

TEJUS
CONSULTANTS

Test Report on Cement				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .			
Client	Bruhat Bangalore Mahanagar Palike			
Consultant	TEJUS CONSULTANTS			
Contractor	Sri. N. LOKANATH REDDY			
Sample ID	Cement			
Date of Sample Tested	08-11-19			
Sample Supplied By	Agency			
Sl.No.	**Descriptions**	**Test Method as per IS**	**Test Result**	**Requirements as per IS: 12269-1987**
1	a) Initial Setting Time	IS-4031 (Part-5)	40 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	410 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

A.N.D

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N LOKANATH REDDY

SIEVE ANALYSIS

Total Weight:	**3000** gms				
Type of Material	**Fine aggregate (River Sand/M sand)**		**Proposed Use**	PCC	
Sample Location	At Plant/site		**Date of Sampling**	08-11-19	
			Date of Testing	08-11-19	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	**100**
4.75 mm	210	210	7.00	93.00	**90 - 100**
2.36 mm	290	500	16.67	83.33	**75 - 100**
1.18 mm	530	1030	34.33	65.67	**55 - 90**
0.600 mm	490	1520	50.67	49.33	**35 -59**
0.300 mm	630	2150	71.67	28.33	**8-30**
0.150 mm	590	2740	91.33	8.67	**0 - 10**
Pan	260	3000			**-**

Remarks : ✓ Satisfactory / Not Satisfactory

M.N.D

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Consultant's Representative

TEJUS
CONSULTANTS

TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. N LOKANATH REDDY

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	**Sand/M sand**	**Proposed Use**	PCC
Location/Source	**At Plant/site**	**Date of Sampling**	08-11-19
Period of Soaking	**24 hours**	**24-10-19**	08-11-19

Sl. No.	Test Property		TRIAL - 1	24-10-19	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		694	690	691	
B	Weight of oven - dry sample gm.		684	680	682	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1708	1708	1707	
E	Bulk specific gravity	B	2.621	2.646	2.633	**2.633**
		(C + A - D)				
G	Absorption (%)	(A - B) *100	1.462	1.471	1.320	**1.417**
		B				

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Test Report on Cement				
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Client	Bruhat Bangalore Mahanagar Palike			
Consultant	TEJUS CONSULTANTS			
Contractor	Sri. N. LOKANATH REDDY			
Sample ID	Cement			
Date of Sample Tested	11-11-19			
Sample Supplied By	Agency			
Sl.No.	**Descriptions**	**Test Method as per IS**	**Test Result**	**Requirements as per IS: 12269-1987**
1	a) Initial Setting Time	IS-4031 (Part-5)	40 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	386 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

Consultant Representative

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
CONSULTANTS

Test Report on Cement				
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .			
Client	Bruhat Bangalore Mahanagar Palike			
Consultant	TEJUS CONSULTANTS			
Contractor	Sri. N. LOKANATH REDDY			
Sample ID	Cement			
Date of Sample Tested	11-11-19			
Sample Supplied By	Agency			
Sl.No.	**Descriptions**	**Test Method as per IS**	**Test Result**	**Requirements as per IS: 12269-1987**
1	a) Initial Setting Time	IS-4031 (Part-5)	40 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	386 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

N.D

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Consultant Representative

TEJUS CONSULTANTS

TEJUS
CONSULTANTS

TEST REPORT						
Clients	Bruhat Bangalore Mahanagara Palike					
Project	Construction of RCC retaining Wall near Water tank (behind govt School) in Sanjeevininagara in Ward no.07 Byatarayanapura .					
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore					
Contractor	Sri. N LOKANATH REDDY					
Total Weight:	10000	gms				
SIEVE ANALYSIS						
Type of Material	**12.5 mm down size**		**Proposed Use**	Concrete (Road)		
Sample Location	Plant		**Date of Sampling**	11-11-19		
			Date of Testing	11-11-19		
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**	
20.0	0	0	0	100	**100**	
12.5	596	596	5.96	94.04	**90-100**	
10.0	3366	3962	39.62	60.38	**40-85**	
4.75	5501	9463	94.63	5.37	**0-10**	
Pan	537	10000				
Remarks :	✓ Satisfactory / Not Satisfactory					

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS CONSULTANTS

Consultant's Representative